

Title (en)  
Die for a tool set for mechanical joining

Title (de)  
Matrize für einen Werkzeugsatz zum mechanischen Fügen

Title (fr)  
Matrice pour jeu d'outils pour réaliser des joints mécaniques

Publication  
**EP 1468758 B1 20050928 (DE)**

Application  
**EP 04007512 A 20040329**

Priority  
DE 10318060 A 20030417

Abstract (en)  
[origin: EP1468758A1] Female mold (1) for a tool kit for mechanically joining metal sheets lying flat on top of each other by shaping defines a cavity (2) containing an anvil (3) lying opposite a punch, and mold segments (9) arranged on the anvil and defining the periphery of the cavity. The mold segments are arranged on a support surface so that they can be displaced outward against spring pre-tension. The mold is peripherally enclosed by a mold sleeve (8) having individual segment guides (10) following the division of the mold segments in the peripheral direction and forming guide tracks extending through the mold sleeve. The mold segments in the form of sliding parts with a protrusion (12) are guided in the segment guides so that they can be displaced outward. Preferred Features: The mold segments are geometrically identical.

IPC 1-7  
**B21D 39/03**

IPC 8 full level  
**B21D 37/02** (2006.01); **B21D 39/03** (2006.01)

CPC (source: EP US)  
**B21D 39/031** (2013.01 - EP US); **Y10T 29/49835** (2015.01 - EP US)

Cited by  
EP3527299A1; DE102018103309A1; EP1857197A1; EP2138249A1; US2013042450A1; EP2440345A4; CN110153295A; US9050645B2; WO2009156519A1; US11090707B2

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